

This Raw Listing contains the General Information Section and up to the first 5 pages.

SEQUENCE LISTING

3 (1) General Information:

4

5 (i) APPLICANT: Bj-rck, Lars

6 Sj-bring, Ulf

7

8 (ii) TITLE OF INVENTION: PROTEIN L AND HYBRID PROTEINS THEREOF

9

10 (iii) NUMBER OF SEQUENCES: 14

11

12 (iv) CORRESPONDENCE ADDRESS:

13 (A) ADDRESSEE: SEED and BERRY LLP

14 (B) STREET: 6300 Columbia Center, 701 Fifth Avenue

15 (C) CITY: Seattle

16 (D) STATE: Washington

17 (E) COUNTRY: USA

18 (F) ZIP: 98104-7092

19

20 (v) COMPUTER READABLE FORM:

21 (A) MEDIUM TYPE: Floppy disk

22 (B) COMPUTER: IBM PC compatible

23 (C) OPERATING SYSTEM: PC-DOS/MS-DOS

24 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30

25

26 (vi) CURRENT APPLICATION DATA:

27 (A) APPLICATION NUMBER: US 08/325,278

28 (B) FILING DATE: 26-OCT-1996

29 (C) CLASSIFICATION:

30

31 (viii) ATTORNEY/AGENT INFORMATION:

32 (A) NAME: McMasters, David D.

33 (B) REGISTRATION NUMBER: 33,963

34 (C) REFERENCE/DOCKET NUMBER: 450023.401

35

36 (ix) TELECOMMUNICATION INFORMATION:

37 (A) TELEPHONE: (206) 622-4900

38 (B) TELEFAX: (206) 682-6031

39

40

41 (2) INFORMATION FOR SEQ ID NO:1:

42

43 (i) SEQUENCE CHARACTERISTICS:

44 (A) LENGTH: 305 amino acids

45 (B) TYPE: amino acid

46 (C) STRANDEDNESS: unknown

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/325,278DATE: 10/07/96
TIME: 15:16:34

INPUT SET: SI3044.raw

47 (D) TOPOLOGY: unknown
48
49 (ii) MOLECULE TYPE: protein
50
51 (iii) HYPOTHETICAL: NO
52
53 (vi) ORIGINAL SOURCE:
54 (A) ORGANISM: Escherichia coli LE392/pHDL, DSM 7054
55
56
57
58 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
59
60 Ala Val Glu Asn Lys Glu Glu Thr Pro Glu Thr Pro Glu Thr Asp Ser
61 1 5 10 15
62
63 Glu Glu Glu Val Thr Ile Lys Ala Asn Leu Ile Phe Ala Asn Gly Ser
64 20 25 30
65
66 Thr Gln Thr Ala Glu Phe Lys Gly Thr Phe Glu Lys Ala Thr Ser Glu
67 35 40 45
68
69 Ala Tyr Ala Tyr Ala Asp Thr Leu Lys Lys Asp Asn Gly Glu Tyr Thr
70 50 55 60
71
72 Val Asp Val Ala Asp Lys Gly Tyr Thr Leu Asn Ile Lys Phe Ala Gly
73 65 70 75 80
74
75 Lys Glu Lys Thr Pro Glu Glu Pro Lys Glu Glu Val Thr Ile Lys Ala
76 85 90 95
77
78 Asn Leu Ile Tyr Ala Asp Gly Lys Thr Gln Thr Ala Glu Phe Lys Gly
79 100 105 110
80
81 Thr Phe Glu Glu Ala Thr Ala Glu Ala Tyr Arg Tyr Ala Asp Ala Leu
82 115 120 125
83
84 Lys Lys Asp Asn Gly Glu Tyr Thr Val Asp Val Ala Asp Lys Gly Tyr
85 130 135 140
86
87 Thr Leu Asn Ile Lys Phe Ala Gly Lys Glu Lys Thr Pro Glu Glu Pro
88 145 150 155 160
89
90 Lys Glu Glu Val Thr Ile Lys Ala Asn Leu Ile Tyr Ala Asp Gly Lys
91 165 170 175
92
93 Thr Gln Thr Ala Glu Phe Lys Gly Thr Phe Glu Glu Ala Thr Ala Glu
94 180 185 190
95
96 Ala Tyr Arg Tyr Ala Asp Leu Leu Ala Lys Glu Asn Gly Lys Tyr Thr
97 195 200 205
98
99 Val Asp Val Ala Asp Lys Gly Tyr Thr Leu Asn Ile Lys Phe Ala Gly

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/325,278DATE: 10/07/96
TIME: 15:16:40

INPUT SET: SI3044.raw

100 210 215 220
101
102 Lys Glu Lys Thr Pro Glu Glu Pro Lys Glu Glu Val Thr Ile Lys Ala
103 225 230 235 240
104
105 Asn Leu Ile Tyr Ala Asp Gly Lys Thr Gln Thr Ala Glu Phe Lys Gly
106 245 250 255
107
108 Thr Phe Ala Glu Ala Thr Ala Glu Ala Tyr Arg Tyr Ala Asp Leu Leu
109 260 265 270
110
111 Ala Lys Glu Asn Gly Lys Tyr Thr Ala Asp Leu Glu Asp Gly Gly Tyr
112 275 280 285
113
114 Thr Ile Asn Ile Arg Phe Ala Gly Lys Lys Val Asp Glu Lys Pro Glu
115 290 295 300
116
117 Glu
118 305
119
120 (2) INFORMATION FOR SEQ ID NO:2:
121
122 (i) SEQUENCE CHARACTERISTICS:
123 (A) LENGTH: 921 base pairs
124 (B) TYPE: nucleic acid
125 (C) STRANDEDNESS: double
126 (D) TOPOLOGY: unknown
127
128 (ii) MOLECULE TYPE: DNA (genomic)
129
130 (iii) HYPOTHETICAL: NO
131
132 (vi) ORIGINAL SOURCE:
133 (A) ORGANISM: Escherichia coli LE392/pHDL, DSM 7054
134
135
136
137 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
138
139 GCGGTAGAAA ATAAAGAAGA AACACCAGAA ACACCAGAAA CTGATTCAGA AGAAGAAGTA 60
140
141 ACAATCAAAG CTAACCTAAT CTTTGCAAAT GGAAGCACAC AAACCTGCAGA ATTCAAAGGA 120
142
143 ACATTTGAAA AAGCAACATC AGAAGCTTAT GCGTATGCAG ATACTTTGAA GAAAGACAAT 180
144
145 GGAGAATATA CTGTAGATGT TGCAGATAAA GGTTTACTT TAAATATTAA ATTTGCTGGA 240
146
147 AAAGAAAAAA CACCAGAAGA ACCAAAAGAA GAAGTTACTA TTAAAGCAA CTTAATCTAT 300
148
149 GCAGATGGAA AAACACAAAC AGCAGAACAT AAAGGAACAT TTGAAGAAC AACAGCAGAA 360
150
151 GCATACAGAT ATGCAGATGC ATTAAAGAAG GACAATGGAG AATATACAGT AGACGTTGCA 420
152

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/325,278DATE: 10/07/96
TIME: 15:16:45

INPUT SET: S13044.raw

153	GATAAAGGTT ATACTTTAAA TATTAATTT GCTGGAAAAG AAAAAACACC AGAAGAACCA	480
154	AAAGAAGAAG TTACTATTAA AGCAAACCTTA ATCTATGCAG ATGGAAAAC ACAAACAGCA	540
155	GAATTCAAAG GAACATTGAGA AGAAGCAACA GCAGAAGCAT ACAGATATGC TGACTTATTA	600
156	GCAAAAGAAA ATGGTAAATA TACAGTAGAC GTTGCAGATA AAGGTTATAC TTTAAATATT	660
157	AAATTTGCTG GAAAAGAAAA AACACCAGAA GAACCAAAAG AAGAAGTTAC TATTAAGCA	720
158	AACTTAATCT ATGCAGATGG AAAAACTCAA ACAGCAGAGT TCAAAGGAAC ATTTGCAGAA	780
159	GCAACAGCAG AAGCATAACAG ATACGCTGAC TTATTAGCAA AAGAAAATGG TAAATATACA	840
160	GCAGACTTAG AAGATGGTGG ATACACTATT AATATTAGAT TTGCAGGTAA GAAAGTTGAC	900
161	GAAAAACCAG AAGAATAATA A	921
162		
163		
164		
165		
166		
167		
168		
169		
170		
171	(2) INFORMATION FOR SEQ ID NO:3:	
172		
173	(i) SEQUENCE CHARACTERISTICS:	
174	(A) LENGTH: 434 amino acids	
175	(B) TYPE: amino acid	
176	(C) STRANDEDNESS: unknown	
177	(D) TOPOLOGY: unknown	
178		
179	(ii) MOLECULE TYPE: protein	
180		
181	(iii) HYPOTHETICAL: NO	
182		
183	(vi) ORIGINAL SOURCE:	
184	(A) ORGANISM: Escherichia coli LE392/pHDLG, DSM 7055	
185		
186		
187		
188	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:	
189		
190	Ala Val Glu Asn Lys Glu Glu Thr Pro Glu Thr Pro Glu Thr Asp Ser	
191	1 5 10 15	
192		
193	Glu Glu Glu Val Thr Ile Lys Ala Asn Leu Ile Phe Ala Asn Gly Ser	
194	20 25 30	
195		
196	Thr Gln Thr Ala Glu Phe Lys Gly Thr Phe Glu Lys Ala Thr Ser Glu	
197	35 40 45	
198		
199	Ala Tyr Ala Tyr Ala Asp Thr Leu Lys Lys Asp Asn Gly Glu Tyr Thr	
200	50 55 60	
201		
202	Val Asp Val Ala Asp Lys Gly Tyr Thr Leu Asn Ile Lys Phe Ala Gly	
203	65 70 75 80	
204		
205	Lys Glu Lys Thr Pro Glu Glu Pro Lys Glu Glu Val Thr Ile Lys Ala	

RAW SEQUENCE LISTING
PATENT APPLICATION US/08/325,278DATE: 10/07/96
TIME: 15:16:50

INPUT SET: S13044.raw

206 85 90 95
207
208 Asn Leu Ile Tyr Ala Asp Gly Lys Thr Gln Thr Ala Glu Phe Lys Gly
209 100 105 110
210
211 Thr Phe Glu Glu Ala Thr Ala Glu Ala Tyr Arg Tyr Ala Asp Ala Leu
212 115 120 125
213
214 Lys Lys Asp Asn Gly Glu Tyr Thr Val Asp Val Ala Asp Lys Gly Tyr
215 130 135 140
216
217 Thr Leu Asn Ile Lys Phe Ala Gly Lys Glu Lys Thr Pro Glu Glu Pro
218 145 150 155 160
219
220 Lys Glu Glu Val Thr Ile Lys Ala Asn Leu Ile Tyr Ala Asp Gly Lys
221 165 170 175
222
223 Thr Gln Thr Ala Glu Phe Lys Gly Thr Phe Glu Glu Ala Thr Ala Glu
224 180 185 190
225
226 Ala Tyr Arg Tyr Ala Asp Leu Leu Ala Lys Glu Asn Gly Lys Tyr Thr
227 195 200 205
228
229 Val Asp Val Ala Asp Lys Gly Tyr Thr Leu Asn Ile Lys Phe Ala Gly
230 210 215 220
231
232 Lys Glu Lys Thr Pro Glu Glu Pro Lys Glu Glu Val Thr Ile Lys Ala
233 225 230 235 240
234
235 Asn Leu Ile Tyr Ala Asp Gly Lys Thr Gln Thr Ala Glu Phe Lys Gly
236 245 250 255
237
238 Thr Phe Ala Glu Ala Thr Ala Glu Ala Tyr Arg Tyr Ala Asp Leu Leu
239 260 265 270
240
241 Ala Lys Glu Asn Gly Lys Tyr Thr Ala Asp Leu Glu Asp Gly Gly Tyr
242 275 280 285
243
244 Thr Ile Asn Ile Arg Phe Ala Gly Lys Lys Val Asp Glu Lys Pro Glu
245 290 295 300
246
247 Glu Pro Met Asp Thr Tyr Lys Leu Ile Leu Asn Gly Lys Thr Leu Lys
248 305 310 315 320
249
250 Gly Glu Thr Thr Glu Ala Val Asp Ala Ala Thr Ala Glu Lys Val
251 325 330 335
252
253 Phe Lys Gln Tyr Ala Asn Asp Asn Gly Val Asp Gly Glu Trp Thr Tyr
254 340 345 350
255
256 Asp Asp Ala Thr Lys Thr Phe Thr Val Thr Glu Lys Pro Glu Val Ile
257 355 360 365
258